

ENGINEERING CHANGE NOTICE

DART AEROSPACE LTD

| | | | | |
|-------------------------|--------------------------------|---------------------------------|--------------------|----------------|
| Date: 11.01.18 | Job No.: ENG1107JAN | ADR Yes/No: Y | ADR Date: 11.01/18 | ECN #: 11- 504 |
| Product No.: D350-748 | Created By: CP | Approved By: <i>[Signature]</i> | | |
| Product Name: Crosstube | Checked By: <i>[Signature]</i> | General Manager Approval: | | |

| Distribution | Reqd | Resp | Initial / Date |
|-------------------------------|------|------|--------------------|
| Production Manager / Coord. | Y | LL | <i>LL 11-02-17</i> |
| Purchasing Coord. | Y | CL | <i>CL 11/02/17</i> |
| Production Engineering Coord. | Y | EC | <i>EC 11.02.17</i> |
| | | | |
| | | | |

| Distribution | Reqd | Resp | Initial / Date |
|----------------------------|------|------|--------------------|
| DQA / QA Coord. | N | | |
| QC Coordinator | Y | ED | <i>ED 11/02/17</i> |
| Customer Technical Support | N | | |
| Marketing | N | | |
| Customer Order Processing | N | | |

Reason for Change:
PAR 09-040

Documents Affected:
D6015 Rev. C
D350-748-141 Rev. F
D350-748-241 Rev. F

PARTS MUST COMPLY ☒ PREVIOUS PARTS SATISFACTORY ☐

| # | Quality Assurance Actions | Reqd | Resp | Notes | Complete |
|---|---------------------------|------|------|-------|----------|
| 1 | Notify Previous Customers | N | | | |
| 2 | Notify Eurocopter France | N | | | |
| 3 | | | | | |

| # | Engineering Actions | Reqd | Resp | Notes | Complete |
|---|--|------|------|---------------|--------------------|
| 4 | Required Documents/Drawings Under Review | Y | CP | | <i>11.02.17 CP</i> |
| 5 | Update Master Document List (MDL) | Y | KJ | <i>Rev. F</i> | <i>11.02.17 KJ</i> |
| 6 | Update Product Compatability Matrix | N | | | |
| 7 | Create Eurocopter Form (FEE) | N | | | |
| 8 | Notify TC / FAA of Change | N | | | |
| 9 | | | | | |

| # | Document Control Actions | Reqd | Resp | Notes | Complete |
|----|---|--------------|---------------|---------------|--------------------|
| 10 | Move Electronic Files | Y | KJ | | <i>11.02.17 KJ</i> |
| 11 | Update Blue/Pink/DSI Folder and Electronic Files | N | | | |
| 12 | Update Approved/Preliminary PDF Files | Y | KJ | | <i>11.02.17 KJ</i> |
| 13 | Update Document Record (DR) | Y | KJ | <i>Rev. F</i> | <i>11.02.17 KJ</i> |
| 14 | Update Product Development Summary | N | | | |
| 15 | Update QSI 021 and/or STC Approval List | N | | | |
| 16 | Update Parts / STC Database | N | | | |
| 17 | Update / Verify ARC Database | N | | | |
| 18 | Create / Update Change Record Form / Item Card Database | Y | KJ | see below | <i>11.02.17 KJ</i> |
| 19 | Create / Update PPP's | Y | KJ | | <i>11.02.17 KJ</i> |
| 20 | Update Document Control Database / Laminated Dwgs | Y | KJ | if req'd | <i>N/A KJ</i> |
| 21 | Update Grey Project / Electronic Binder PDF Files | N | KJ | | |
| 22 | Update D-Part/M-Drawing/DSI/DEO Master Binders | Y | KJ | | <i>11.02.17 KJ</i> |
| 23 | | | | | |
| 24 | | | | | |

Description / Action:

- New extrusion for crosstubes, requires entire tube to be machined. This was done to eliminate pit marks in the center area of the tube.
- Still OK to make tubes from old material.
- D350-748-101/-201/-101A/-201A now at CHG 002
- Also: crosstube twist dimension added to dwgs, rockwell hardness value added for acceptance of heat treatment.
- chg number increased to identify tubes made with new manufacturing process. For simplicity, label all tubes mfg from now on as CHG 002, regardless of whether they use old material/process.
- D6015 updated to change OD.

ECN Verified & Complete: *[Signature]*

Date: *11/02/18*